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<110> Blumenfeld, Marta
Bougueleret, Lydie
Chumakov, Ilya

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Asp Val Ala Phe His Phe Asn Pro Arg Phe Lys Arg Ala Gly Cys Ile	
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Val	Ala	Val	Asn	Gly	Val	His	Ser	Leu	Glu	Tyr	Lys	His	Arg	Phe	Lys
			325						330					335	
Glu	Leu	Ser	Ser	Ile	Asp	Thr	Leu	Glu	Ile	Asn	Gly	Asp	Ile	His	Leu
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<223> 5-2-162 : polymorphic amino acid Tyr or Phe

<221> VARIANT

<222> 35

<223> 5-2-213 : polymorphic amino acid Cys or Arg

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<223> 5-3-84 : polymorphic amino acid Val or Met

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<223> 5-7-195 : polymorphic amino acid Ser or Arg

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			20					25					30		
Val	Ile	Cys	Gly	His	Val	Pro	Ser	Asp	Ala	Asp	Arg	Phe	Gln	Val	Asp
		35					40					45			
Leu	Gln	Asn	Gly	Ser	Ser	Val	Lys	Pro	Arg	Ala	Asp	Val	Ala	Phe	His
	50					55					60				
Phe	Asn	Pro	Arg	Phe	Lys	Arg	Ala	Gly	Cys	Ile	Val	Cys	Asn	Thr	Leu
65					70				75						80
Ile	Asn	Glu	Lys	Trp	Gly	Arg	Glu	Glu	Ile	Thr	Tyr	Asp	Thr	Pro	Phe
			85					90						95	
Lys	Arg	Glu	Lys	Ser	Phe	Glu	Ile	Val	Ile	Met	Val	Leu	Lys	Asp	Lys
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Phe	Gln	Val	Ala	Val	Asn	Gly	Lys	His	Thr	Leu	Leu	Tyr	Gly	His	Arg
		115					120						125		
Ile	Gly	Pro	Glu	Lys	Ile	Asp	Thr	Leu	Gly	Ile	Tyr	Gly	Lys	Val	Asn
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Ile	His	Ser	Ile	Gly	Phe	Ser	Phe	Ser	Ser	Asp	Leu	Gln	Ser	Thr	Gln
145					150					155					160
Ala	Ser	Ser	Leu	Glu	Leu	Thr	Glu	Ile	Ser	Arg	Glu	Asn	Val	Pro	Lys
			165					170						175	
Ser	Gly	Thr	Pro	Gln	Leu	Ser	Leu	Pro	Phe	Ala	Ala	Arg	Leu	Asn	Thr
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Pro	Met	Gly	Pro	Gly	Arg	Thr	Val	Val	Lys	Gly	Glu	Val	Asn	Ala	
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Asn	Ala	Lys	Ser	Phe	Asn	Val	Asp	Leu	Leu	Ala	Gly	Lys	Ser	Lys	Asp
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Ile	Ala	Leu	His	Leu	Asn	Pro	Arg	Leu	Asn	Ile	Lys	Ala	Phe	Val	Arg
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Asn	Ser	Phe	Leu	Gln	Glu	Ser	Trp	Gly	Glu	Glu	Glu	Arg	Asn	Ile	Thr
			245					250						255	
Ser	Phe	Pro	Phe	Ser	Pro	Gly	Met	Tyr	Phe	Glu	Met	Ile	Ile	Tyr	Cys
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Asp	Val	Arg	Glu	Phe	Lys	Val	Ala	Val	Asn	Gly	Val	His	Ser	Leu	Glu
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Tyr	Lys	His	Arg	Phe	Lys	Glu	Leu	Ser	Ser	Ile	Asp	Thr	Leu	Glu	Ile
	290					295					300				
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Met	Lys	His	Ile	Asn	Lys	Ala	Gly	Gly	Ala	Thr	Asp	Arg	Leu	Pro	Pro
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His	Arg	Ser	Phe	Arg	Leu	His	Ser	Leu	Pro	Thr	Gly	Leu	His	Trp	Lys
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 atg ttg tcc tta aat aac cta caa aat atc atc tat aac ccg ata atc 168
 Met Leu Ser Leu Asn Asn Leu Gln Asn Ile Ile Tyr Asn Pro Ile Ile
 1 5 10 15
 ccc tat gtt ggc acc att act gag caa ttg aag cct ggc tct ctg att 216
 Pro Tyr Val Gly Thr Ile Thr Glu Gln Leu Lys Pro Gly Ser Leu Ile
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 gta atc cgt ggg cat gtc cct aaa gat tca gaa aga ttc cag gtt gac 264
 Val Ile Arg Gly His Val Pro Lys Asp Ser Glu Arg Phe Gln Val Asp
 35 40 45
 ttt cag ctg ggc aac agc ctg aag cca aga gca gac gtg gcc ttc cac 312
 Phe Gln Leu Gly Asn Ser Leu Lys Pro Arg Ala Asp Val Ala Phe His
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 65 70 75 80
 aca cag gag aag tgg ggc tgg gag gag atc acc tac gac atg ccc ttc 408
 Thr Gln Glu Lys Trp Gly Trp Glu Glu Ile Thr Tyr Asp Met Pro Phe
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 Arg Lys Glu Lys Ser Phe Glu Ile Val Phe Met Val Leu Lys Asn Lys
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 Phe Gln Val Ala Val Asn Gly Arg His Val Leu Leu Tyr Ala His Arg
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 165 170 175
 cca ggc aag ctc cag ctg agc ctg cca ttt gaa gca agg ttg aat gcc 696
 Pro Gly Lys Leu Gln Leu Ser Leu Pro Phe Glu Ala Arg Leu Asn Ala
 180 185 190
 tcc atg ggt cct gga cga acc gtt gtc att aaa ggg gaa gtg aac acc 744
 Ser Met Gly Pro Gly Arg Thr Val Val Ile Lys Gly Glu Val Asn Thr
 195 200 205
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 210 215 220
 atc gct ctg cac ttg aac cca cgc ctc aat gtg aaa gca ttt gta aga 840
 Ile Ala Leu His Leu Asn Pro Arg Leu Asn Val Lys Ala Phe Val Arg
 225 230 235 240
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Asp Val Arg Glu Phe Lys Val Ala Ile Asn Gly Val His Ser Leu Glu	
275 280 285	
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Tyr Lys His Arg Phe Lys Asp Leu Ser Ser Ile Asp Thr Leu Ser Val	
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130 135 140	
Ile His Ser Ile Gly Phe Arg Phe Ser Ser Asp Leu Gln Ser Met Glu	
145 150 155 160	
Thr Ser Ala Leu Gly Leu Thr Gln Ile Asn Arg Glu Asn Ile Gln Lys	
165 170 175	
Pro Gly Lys Leu Gln Leu Ser Leu Pro Phe Glu Ala Arg Leu Asn Ala	
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Ser Met Gly Pro Gly Arg Thr Val Val Ile Lys Gly Glu Val Asn Thr	
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 Asp Val Arg Glu Phe Lys Val Ala Ile Asn Gly Val His Ser Leu Glu
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